

From glowbugs@theporch.com Tue Mar 19 19:46:56 1996  
Return-Path: glowbugs@theporch.com  
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com  
(8.7.5/AUX-3.1.1) with SMTP id TAA09063; Tue, 19 Mar 1996 19:40:47 -0600 (CST)  
Date: Tue, 19 Mar 1996 19:40:47 -0600 (CST)  
Message-Id: <199603200140.TAA09063@uro.theporch.com>  
Errors-To: ws4s@midtenn.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 135  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 135

Topics covered in this issue include:

- 1) Re: Glowbuggite/Boatanchorite 3579.545 funzies  
by rdkeys@csemail.cropsci.ncsu.edu
- 2) 6AG7  
by earwax@indy.net
- 3) Re: 6AG7  
by rdkeys@csemail.cropsci.ncsu.edu
- 4) 3579.545 funzies  
by rdkeys@csemail.cropsci.ncsu.edu
- 5) Design of Globuggite single tube type MOPA set  
by rdkeys@csemail.cropsci.ncsu.edu

-----  
Date: Tue, 19 Mar 1996 10:58:04 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: stever@cybercomm.net  
Cc: rdkeys@csemail.cropsci.ncsu.edu (), boatanchors@theporch.com,  
Subject: Re: Glowbuggite/Boatanchorite 3579.545 funzies  
Message-ID: <9603191558.AA101123@csemail.cropsci.ncsu.edu>

>  
> Had a nice but short CW QSO with Chris Bowne (AJ1G) tonight  
> at 0300z with his TCS 12...Plenty of QRM and QSB..I'm not sure  
> what else Chris was using (it was a jungle out there)..I listened  
> for other BA'ers and heard some stuff way down in the mess..will  
> listen at 0400Z and then pull "The Big Switch"..I'm using my Viking

> Adventurer and Sp-600 with zepp..CQ BA...3.579.545 +/- Mcs.  
>  
> 73,  
> Steve, WA2NHZ

Steve..... and the other 4 folks who made the QRG/QTR/QSO

Sandy's Viking 500 was a real barnburner, even through the QRN.  
Conard's TCS was solid, but a tad weak in the QRN.  
My HW-16, was.....well, marginal.

It was GREAT to work 5 fellers on the TV rock QRG last night.  
I have not had such fun in a long time. The band was very noisy  
with thunderstorms about locally, so I had a devil of a time getting  
solid copy, but for the most part it was quite good. The best times  
were later at night --- 0600Z (late for this ol' pfarte). My HW-16 was  
in good form, although the receiver on that beast leaves a lot to be  
desired. Several folks have commented that the 3579.545 seems to be  
a good QRG, even though W1AW is close and there is a tendency for  
some packet racket there. The TV rocks work quite well in the HW-16,  
and should do yeoman service in most standard xtal oscillator rigs.

Glad you fellers could make the watch. Now if we can just get the lead  
out of some of the remainder of the crew, and make it a regular nightly  
feature.....(:+}}.....

TU/SU/73/ZUT DE NA4G/Bob

-----  
Date: Tue, 19 Mar 1996 11:05:57 -0500  
From: earwax@indy.net  
To: glowbugs@theporch.com  
Subject: 6AG7  
Message-ID: <199603191605.LAA06118@IndyNet.indy.net>

Could someone point me towards a simple 6AG7 tx circuit? TIA !

73 es etc...

Charlie

Charlie Kuhn, N9NVV

earwax@indy.net  
Censor Yourself, Not Others  
All Disclaimers Apply

-----  
Date: Tue, 19 Mar 1996 11:45:08 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: earwax@indy.net  
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com  
Subject: Re: 6AG7  
Message-ID: <9603191645.AA100199@csemail.cropsci.ncsu.edu>

>  
> Could someone point me towards a simple 6AG7 tx circuit? TIA !  
> 73 es etc...  
> Charlie  
>  
> Charlie Kuhn, N9NVV  
> earwax@indy.net  
> Censor Yourself, Not Others  
> All Disclaimers Apply  
>

There is one in the 1952/3/4/5/6 or so handbook from the ARRL, that is a nice 1 tube affair, with pinet output. Looks like a winner to me.

In the same issues there is an absolutely gorgeous 1/2kw rig for cw on all bands using an 813, and a simplified version using a pair of 6AG7's and an 813 for 160 meters. Drool.....(:+}}.....

73/ZUT DE NA4G/Bob

-----  
Date: Tue, 19 Mar 1996 12:20:29 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: glowbugs@theporch.com, boatanchors@theporch.com  
Cc: rdkeys@csemail.cropsci.ncsu.edu ()  
Subject: 3579.545 funzies  
Message-ID: <9603191720.AA100277@csemail.cropsci.ncsu.edu>

Well, last night was good, an' mebbees tonight may be better, so.....

Grapple's ye yer tin cans, an' top's 'em on yer noggin. Readys ye yer keys at the fore, an' stands ye byes the bye fer another fine watch aboard the crackle an' din o' 200 metres an' down.....

QRG 3579.545  
QTR 0300/0400/0500/0600UTC  
CQ GB/BA CQ GB/BA DE yourcall yourcall K

Puts ye yer fine bottleburners a'stoked, an haves ye a fine time on watch.

73/ZUT DE NA4G/Bob  
rdkeys@csemail.cropsci.ncsu.edu

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*****
* 73/ZUT TU/SU VA DE NA4G          ``Boat Anchor Bob'', an ol' CW fart. *
*****
* Morse has been in the family for over 100 years.                        *
* Morse radiotelegraphy (Spark/CW) has been in the family since 1914.    *
*****
* May you have fair winds and following seas on your watch at the key.  *
*****
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p.s. With so many folks aboard both lists, surely there be a few more  
with glowbottles a'ready, an fingers a'nimble upon the ol' brass  
monkey.....

DE NA4G UP

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Date: Tue, 19 Mar 1996 12:50:40 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: glowbugs@theporch.com  
Cc: rdkeys@csemail.cropsci.ncsu.edu ()  
Subject: Design of Globuggite single tube type MOPA set  
Message-ID: <9603191750.AA100329@csemail.cropsci.ncsu.edu>

For the sake of discussion.....

I have often thought about a classic rig using a trick of the military,  
exemplified by the WWII German variant, of using a single tube type for  
all stages in a classic MOPA CW rig.

There was a good article by LT. Tom Rives, of the Signal School,  
Ft. Monmouth, NJ, in the 1924 QST, using a standard 5 watter in a  
MOPA configuration, as follows --- master oscillator a 1 tube hartley,  
plate amplifier a triplet of tubes in parallel. Apparently the design  
was quite stable for its day.

In WWII, the Germans were noted for their use of one tube type throughout a radio set (makes for easy spares procurement).

Thus, why not take a typical or a classic style of MOPA or MOIPAPA design, and use one tube type for a standardized Glowbuggite design, thus:

Master Oscillator --- 6146 (in the RCA xtal/vfo design of 1927)

Intermediate Plate Amplifier (if used) --- 6146 in straight/doubler design

Power Amplifier --- 6146 parallel triplet with a PI-L output network.

The master oscillator would be designed to oscillate in the grid tank on 160 meters, use a simple Hartley or Clapp circuit, and use a tuned tank for 80 meters or a simple RF choke for 160 meters output. A string of VR tubes would put 150 volts on the screen and 240/255/300 volts on the plate. The VR tube string would feed off the amplifier plate strings.

The intermediate plate amplifier would use untuned input and have a tank tunable to 160/80/40 meters so it would operate straight through or as a doubler. The voltages would come off a plate string from the plate amplifier HV line. Screen voltages taken from dropping resistors, such that about 250 volts were on the screen and 500 volts on the plate.

The plate amplifier would use untuned or choke input or be swamped loaded at 100 ohms or so if necessary for stability so no neutralization would be required. Three tubes in parallel would be used. The output would be a pi-net for 160/80/40 meters with an L extension for antenna tuning in series or L fashion for low or high impedance antennas.

A low-pass filter with about an 8 or 9 mhz cutoff would be used to eliminate harmonics above 40 meters, although they should be minimal with the Pi-L tank circuit.

A relay would be used to switch between rig and receiver from the antenna input.

A relay would be used for keying the B- line so that a resistor network could provide cutoff bias grid block keying in the same manner as the BC-191/BC-375 transmitters (works very well).

6/12/24 volt tubes could be subbed at will.

An external power supply would be used so anything from batteries to dynamotors to inverters to a standard single voltage AC power supply of about 500-650 volts could be used.

All power would be taken from the one B+ line via suitable resistor networks to provide required screen and reduced plate voltages, with the oscillator voltages stabilized using a pair of VR tubes.

A key click filter would be built into the grid block line to allow a couple of milliseconds of lag.

The basic design could sub 2E26's for 6146's directly.

The basic design could sub 6V6's, 6L6's, and the like with minor changes.

Thus, a single common tube would be used throughout the rig.

Sound interesting?

Comments appreciated, for the sake of discussion amongst the crewe.....

73/ZUT DE NA4G/Bob

rdkeys@csemail.cropsci.ncsu.edu

DE NA4G UP

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End of GLOWBUGS Digest 135

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